

**UNITED STATES DEPARTMENT OF COMMERCE****United States Patent and Trademark Office**Address: COMMISSIONER OF PATENTS AND TRADEMARKS
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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. |
|-----------------|-------------|----------------------|---------------------|
|-----------------|-------------|----------------------|---------------------|

09/195,728 11/18/98 DRUCKER

S 1026-006-112

021034
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TM02/1026

EXAMINER

YANG, R

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

2672

DATE MAILED:

10/26/01

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

AG

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|------------------------------|-------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 09/195,728 | DRUCKER ET AL. | |
| | Examiner Ryan R Yang | Art Unit 2672 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 04 September 2001.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1-39 is/are allowed.
- 6) Claim(s) 40-42 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Prosecution Application

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/4/01 has been entered.
2. This action is responsive to communications: Amendment, filed on 9/4/01. This action is non-final.
3. Claims 1-42 are pending in this application. Claims 1,16,27, 34 and 40-42 are independent claims. In the Amendment, filed on 9/4/01, claims 40-42 were amended.
4. The present title of the invention is "View Dependent Tiled Textures" as filed originally.

Claim Rejections - 35 USC § 103

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
6. Claims 40-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakaibara et al. (5,786,822).

As per claim 40, Sakaibara et al., hereinafter Sakaibara, discloses a computer method of applying a texture map to an image surface in a graphics image rendered on a computer display screen, comprising:

identifying a region of the image surface to which region the texture map is to be applied (Figure 13 object 30);

determining a viewing angle for the region, the viewing angle being determined with respect to a selected user viewpoint ("A plurality of directions to view the surface of the real object or the surface generated by the computer graphics corresponding to the texture data, are assumed, and different texture data is provided for each of the different directions and when the object is displayed, the texture data corresponding to the direction of viewing the surface of the object is selected for mapping", column 3, line 57-63, and in Figure 13 each of the positions is a selected viewpoint);

correlating the viewing angle with a texture map tile corresponding to the viewing angle ("different texture data is provided for each of the different directions and when the object is displayed, the texture data corresponding to the direction of viewing the surface of the object is selected for mapping", column 3, line 60-63); and

rendering the texture map tile at the region on the computer display screen (Figure 1 monitor 8).

7. As per claim 41, Sakaibara discloses a method of generating a tile data structure in a computer readable medium representing an image texture for a tiled texture mapping, comprising:

determining plural selected viewing angles for viewing the image texture, the viewing angles being determined with respect to selected user viewpoint (Figure 13 20); correlating each selected viewing angle to a predetermined range of viewing angles that includes the selected viewing angle (“A plurality of directions to view the surface of the real object or the surface generated by the computer graphics corresponding to the texture data, are assumed, and different texture data is provided for each of the different directions and when the object is displayed, the texture data corresponding to the direction of viewing the surface of the object is selected for mapping”, column 3, line 57-63); and

forming for each of the selected viewing angles a data structure that includes a projection of the image texture relative to the selected viewing angles (“different texture data is provided for each of the different directions and when the object is displayed, the texture data corresponding to the direction of viewing the surface of the object is selected for mapping”, column 3, line 60-63).

8. As per claim 42, since Sakaibara's system is comprised of computer, with CPU and memory (see Figure 1), it is obvious that the system is run by software instructions, and therefore is similarly rejected as claim 40 as set forth supra.

Allowable Subject Matter

9. Claims 1-39 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The amended claim limitation "rendered simultaneously on a display screen immediately adjacent each other" overcame the prior art of record.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Inquiries

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Ryan Yang** whose telephone number is **(703) 308-6133**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Michael Razavi**, can be reached at **(703) 305-4713**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Art Unit: 2672

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ryan Yang
October 23, 2001

Jeffery A. Brier
JEFFERY BRIER
PRIMARY EXAMINER